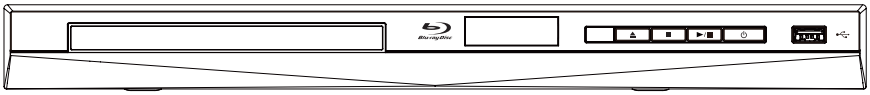
TOSHIBA

Blu-ray Disc™ Player



BDX2300KE

Owner's Manual

dts-HD Master Audio Essential
DOLBY TRUE HD DIGITAL PLUS
DIVX HD
HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE
AVCHD
Java POWERED
dlna CERTIFIED

English

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1 Important

Safety and important notice

Warning:

- Risk of overheating! Never install the product in a confined space. Always leave a space of at least 10cm around the product for ventilation. Ensure curtains or other objects never cover the ventilation slots on the product.
- Never place the product, remote control or batteries near naked flames or other heat sources, including direct sunlight.
- Only use this product indoors. Keep this product away from water, moisture and liquid-filled objects.
- Never place this product on other electrical equipment.
- Keep away from this product during lightning storms.
- Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

LASER
CAUTION:
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
CAUTION:
VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. DO NOT STARE INTO BEAM.
LOCATION:
INSIDE, NEAR THE DECK MECHANISM.

EU Conformity Statement

CE

This product is marked with "CE" and complies therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2006/95/EC and the EMC Directive 2004/108/EC. ErP Directive 2009/125/EC
Responsible for CE-marking is
TOSHIBA EUROPE GMBH
Hammfelddamm 8, D-41460 Neuss, Germany.

Disposal of your old product and batteries

Following information is only valid for EU-member States:
Disposal of products
The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste.
Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres.
The black bar indicates that the product was placed on the market after August 13, 2005.
By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.
For more detailed information about the collection and recycling programmes available in your country, please contact your retailer where the product was purchased.
Disposal of batteries and/or accumulators
The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.
Pb,Hg,Cd
If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg),and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.
By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.
For more detailed information about the collection and recycling programmes available in your country, please contact your retailer where the product was purchased.

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Be responsible
Respect copyrights

English

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English

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DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.

ABOUT DIVX VIDEO-ON-DEMAND:
This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

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2 Your Product

Regions Codes

Both the Blu-ray Disc™ Player and the discs are coded by region. These regional codes must match in order to play the disc. If the codes do not match, the disc will not play.
The Region Number for this Blu-ray Disc™ Player is described on the rear panel of the Blu-ray Disc™ player.

Region	DVD discs that can be played
U.S.A. and Canada regions	
U.K., Europe regions and Japan	
Asia Pacific, Taiwan, Korea	
Australia, New Zealand, Latin America	
Russia and India regions	
China, Calcos Islands, Walls and Futuna Islands	

Region	Blu-ray™ discs that can be played
North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South East Asia.	
Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealand.	
India, China, Russia, Central and South Asia.	

English

Feature highlights
High-Definition entertainment
Watch high-definition content disc with HDTV (High Definition Television). Connect it through a high speed HDMI cable. You can enjoy excellent picture quality up to 1080p resolution with the frame rate of 24 frames per second with progressive scan output.
BD-Live™
Connect this player to the movie studios website via the LAN jack to access a variety of up-to-date content (e.g. refreshed previews and exclusive special features).

Blu-ray Disc™ Java

Blu-ray Disc™ Java(BD-J) Application
The BD-ROM format supports Java for interactive functions. "BD-J" offers content providers almost unlimited functionality when creating interactive BD-ROM titles.

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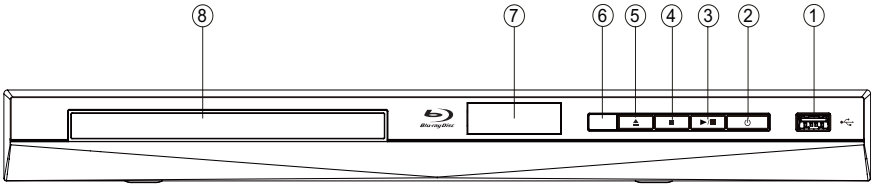
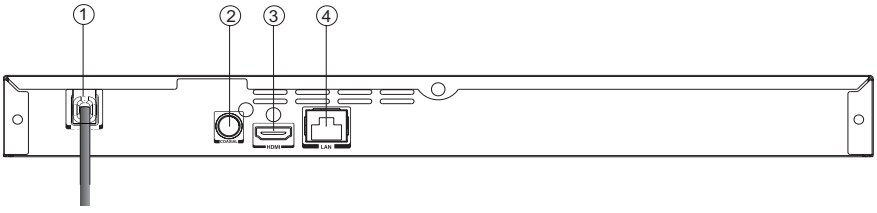
Product overview

Main Unit



NO	Control	Function
①	USB jack	Connect a USB flash drive.
②	⏻	Turn the power on or restores the unit to the standby mode.
③	▶/❚❚	Playback/Pause.
④	■	Stop play.
⑤	⏏	Open or close the disc compartment.
⑥	IR Sensor	Point the remote control at the IR sensor.
⑦	Display panel	Show information about the current status of this unit.
⑧	Disc compartment	Load a disc into the disc drive.



NO	Control	Function
①	AC power cord	Connect to a standard AC outlet.
②	COAXIAL jack	Output digital audio signals when connecting the coaxial digital cable.
③	HDMI OUTPUT jack	Output video/audio signals to a connected TV, monitor or AV amplifier. Connect to a TV, monitor or AV amplifier equipped with HDMI input.
④	LAN jack	When not using Wifi, use this to connect to a network with an always-on broadband connection. It is reserved for future usage of BD-Live™, bonus content, Media Server Search, Picasa, YouTube and External Control.

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Remote Control

▲OPEN/CLOSE
• Open/ Close the disc tray

Number Buttons
• Select numbered items in a menu
• Press to enter track/ chapter/ title numbers/password directly

OSC
• To access On Screen Control menu

CLEAR
• To clear an entry or the bookmark and program you set

MC(Media Center)
• To open/close Media Center

POP UP/MENU
• To display a menu included on many Blu-ray Disc™/DVD video discs

OK
• Acknowledge/ Confirm menu selection

◀▶▲▼
• Navigation/ Cursor buttons for moving to the left / right / up / down
• Press ◀/▶ during JPEG playback to rotate the current photo track, but the JPEG playback will be paused

RETURN
• Return to previous menu

TOP MENU
• To display the disc title during playback

PROGRAM
• To access program list.

DIGEST
• To access JPEG thumbnail view during playback

SUBTITLE
• To display subtitle; press repeatedly to select different subtitles available in your disc

AUDIO
• To select the sound stream; press repeatedly to select different audio streams available in your disc

ANGLE
• Switch the camera angle during playback

REMOTE SIGNAL EMITTER
• Point remote control to the sensor on the front panel

ON / STANDBY
• To switch the Blu-ray Disc™ Player to ON or standby mode

SETUP
• Enter or exit the system setup menu

REPEAT A-B
• To repeat from A to B

REPEAT
• Select various repeat mode.

GOTO
• To goto a title, chapter, track or playing time

DISPLAY
• To display a window to locate a title, chapter or track

◀◀I/I▶▶
• Instant replay/instant search

◀◀/▶▶ F.R & F.F
• Fast reverse/ fast forward

▶/II PLAY/PAUSE
• Start/Pause playback

I◀◀/▶▶I PREV & NEXT
• Skip to previous/next chapter/ title/track

■ STOP
• Stop playback

I▶
• Do a slow forward during normal playback

II▶
• Advance the picture frame by frame during pause mode

ZOOM
• To zoom out/in

BOOKMARK
• To bookmark at any point during playback

PIP (Picture in Picture)
• Switch on or off the secondary video

PIP AUDIO
• Switch the secondary audio of secondary video(PIP) to on or off

CONNECTED
• To open the MC and directly into the Connection folder

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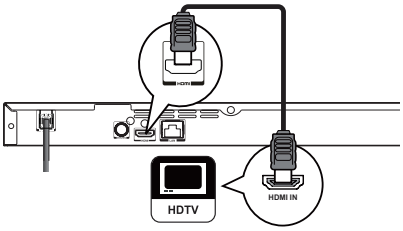
3 Connections

Make the following connection to use this product.

Connecting to a TV

Connect the product to TV via HDMI jack to view the playback from the disc.

Connect to the HDMI Jack



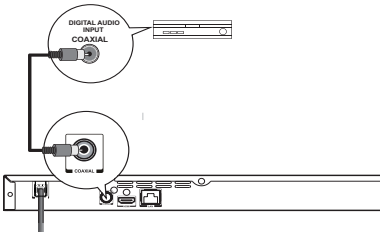
1. Connect a HDMI cable from the HDMI output jack on this product to the HDMI input jack on the TV.

Optional Connection

Option 1: Connect to the digital amplifier/ receiver
Option 2: Connect to network
Option 3: Connect to Wifi

Option 1: Connect to the digital amplifier/receiver

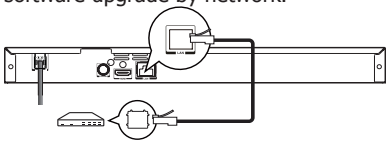
Route the sound from this player to other device to enhance audio output.



1. Connect a coaxial cable from the COAXIAL jack on this product to the COAXIAL jack on the device.

Option 2: Connect to network

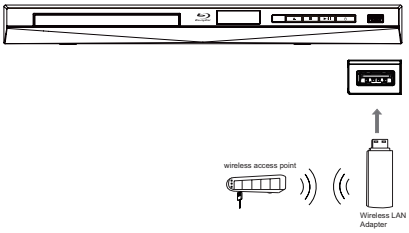
Connect this product to the network to enjoy BD-Live™ bonus content and software upgrade by network.



1. Connect the network cable from the LAN jack on the product to the LAN jack on the network system.

Option 3: Connect to Wifi

Connect the TOSHIBA's USB Wi-Fi® adapter to the USB jack on the front panel of the Blu-ray Disc™ player, and set the wireless network options. No physical connection to the wireless router is necessary.



1. Configure your player to access the wireless access point or router.
2. The network configuration and connection method may vary depending on the equipment in use and the network environment. Your Blu-ray Disc™ player is equipped with an IEEE 802.11n wireless module, which also supports the 802.11 a/b/g/n standards. For the best wireless performance, we recommend using an IEEE 802.11n certified Wi-Fi® network (access point or wireless router).

Notes:

- USB Wi-Fi® adapter is required for a wireless connection (not supplied).
- This unit is compatible with TOSHIBA's USB Wi-Fi® adapter only (Model name: WLM-12EB1).
- For detailed information, please refer to the device's User's Guide for WLM-12EB1.

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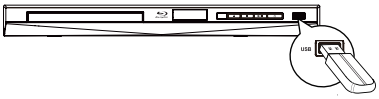
Connect USB device

The USB jack supports USB flash drive, TOSHIBA's USB Wi-Fi® adapter (Model name: WLM-12EB1) and 4 ports USB HUB.
A USB flash drive provides an additional memory to software upgrade and enjoy BD-Live™ bonus content.
You can also enjoy playing back MP3/ JPEG/MPEG4/DivX® files stored in the USB flash drive.



1. Connect the USB flash drive or TOSHIBA's USB Wi-Fi® adapter to the USB jack on this product.

Notes:

*- To enjoy BD-Live™ bonus content, as your local storage, use a **1 GB or larger USB flash drive.***

- For some Blu-ray™ discs with BD-Live™ feature, you may need to plug in the USB flash drive before loading the disc. Otherwise, the disc may not playback.

- TOSHIBA does not guarantee 100% compatibility with all USB flash drives.

- USB-HUB is used when using USB flash drive and TOSHIBA's USB Wi-Fi® adapter together.

Connect Power

1. Connect the AC power cable to:
   - the wall socket.
   - The product is ready to be set up for use.

Notes:

– Before connecting the AC power cord, ensure you have completed all other connections.

– Risk of product damage! Ensure that the power supply voltage corresponds to the voltage printed on the back of the unit.

– The type plate is located on the back of the unit.

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English

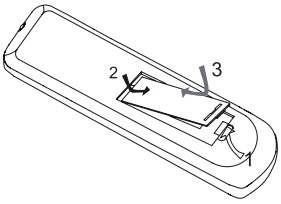
4 Preparation

Always follow the instructions in this chapter in sequence.

Note:

- Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

Prepare the remote control



1. Open the battery compartment.
2. Insert one R03 battery with correct polarity (+/-) as indicated.
3. Close the battery compartment.

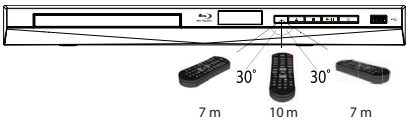
Notes:

- If you are not going to use the remote control for a long time, remove the battery.

- Risk of explosion! Keep battery away from heat, sunshine or fire. Never discard battery in fire.

● The maximum operable ranges from the unit are as follows.

- Line of sight: approx. 10 m
- Either side of the centre: approx. 7 m within 30°
- Above: approx. 7 m within 30°
- Below: approx. 7 m within 30°



Setting up the player

Find the correct viewing input

1. Press ⏻ to turn on this product.
2. Turn on the TV and switch to the correct video-in input (refer to the TV user manual on how to select the correct input).

Initial Setting

When you turn on this unit for the first time, you need to follow these steps.

1. A welcome page will be displayed when this product is powered on.
2. Press OK to enter language setting.
3. Select your desired language, resolution and aspect ratio using ▲/▼, then press OK.
4. Press SETUP to exit the Setup menu.

Use the SETUP menu

1. Press SETUP to display the Setup menu when the Blu-ray Disc™ Player is playing or no disc. And press SETUP to exit the Setup menu.

Tip:

- When playing high-definition sources, you must press STOP ■ *button to enter* SETUP *interface.*

Select menu display language

1. Press SETUP, **[General Setting]** menu is displayed.
2. Select **[Language]**, then press ▶.
3. Select **[OSD]**, then press ▶.

- The language options may vary for different regions.

4. Press ▲/▼ to select a language, then press OK.

Note:

- If this disc player is connected to a HDMI CEC compliant TV, skip this setting. It switches automatically to the same OSD menu language as per your TV setting.

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5 Playback

Playback Functions

Basic Playback

1. Press ⏻ button on the front panel or the remote control, your Blu-ray Disc™ player will turn on.
The unit will take around 20 seconds to warm up. When the power supply is first switched on, the setup of the Power Down Mode is in Normal mode.
2. Turn on the TV, and then select the input setting on the TV that matches the connection method you used to connect your player.
3. Press OPEN/CLOSE ⏏ to slide out the disc tray.
4. Place a disc on the disc tray with the label facing up, and then press OPEN/CLOSE ⏏ to slide back and close the disc tray.
The disc loading time depends on the types of disc you are loading, and loading a Blu-ray Disc™ will take longer time.
5. If the disc does not start playing automatically, please press ▶/❚❚ to start playback.
6. If a Blu-ray Disc™ or DVD menu displays, use cursor buttons to select PLAY. Then, press OK to confirm.
7. To eject the disc, press OPEN/CLOSE ⏏.

Pause playback

1. Press ▶/❚❚ to pause playback. The sound will be muted.
2. Press ▶/❚❚ to resume the playback.

Stop playback

1. Press STOP ■ button once to go to resume mode, the TV screen will show the resume logo.
2. Press STOP ■ twice to stop the playback completely.
3. Press ▶/❚❚ to resume playback from the point where playback is stopped or from the beginning of the disc after the playback is completely stopped.
Not all Blu-ray™ discs support the resume feature.

Fast Forward and Fast Reverse

1. Press F.F ▶▶ to fast forward through the disc. The fast forward speed changes based on how many times you pressed the button. The speed will increase through the following sequence:
2X, 4X, 8X, 16X, 32X
2. Press ▶/❚❚ to resume playback.
3. Press F.R ◀◀ to fast reverse through the disc. The fast reverse speed changes based on how many times you pressed the button. The speed will increase through the following sequence:
2X, 4X, 8X, 16X, 32X
4. Press ▶/❚❚ to resume playback.

Instant Search and Instant Replay

1. During playback, press and hold ▶▶ button, you can search 30 seconds forward.

2. During playback, press and hold ◀◀ button, you can instant replay the content from 10 seconds before.

Previous and Next

During playback, press PREV ⏮ button, and you can skip back to the previous chapter or track. Each press of this button will allow you to skip a chapter or track till the beginning of the disc.
Press of NEXT ▶▶⏭ button during playback will allow you to skip the playback to next chapter or track.

Slow Forward

1. Press ❙▶ during normal playback. The slow forward speed is 1/16 in default.
2. To change slow forward speed, press ❙▶ repeatedly, and the slow forward speed will be changed in the following sequence: 1/16, 1/8, 1/4, 1/2, normal.
3. To exit slow forward mode and return to normal playback, press ▶/❚❚.

Step Forward

Use this feature to help you to enjoy the video frame by frame.
1. Press ▶/❚❚ during normal playback, then playback will change to pause state.
2. Press ❚❚▶ repeatedly to advance the picture frame by frame.
3. Press ▶/❚❚ to resume normal playback.

Connection

To open the MC and directly into the Connection folder.

English

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Advanced Playback

DISPLAY
Press this button and the screen will display some information about disc, such as: Title number, Chapter number, Track number, Elapsed Time, Mode, Audio, Angle, and Subtitle languages. Press this button again to turn off the information display.
During DVD/CD playback, you may edit the chapter and track
REPEAT
Press REPEAT repeatedly to select different repeat modes.
Blu-ray Disc™: Repeat Chapter and Title.
DVD: Repeat Chapter, Title and All.
VCD PBC Off/CD-DA/JPEG/MP3: Repeat Track and All.
A-B
To play certain section within the video or song, press A-B button to set the start point. Then, press A-B button again to set the end point and complete the setting. The selected section will be played repeatedly.
Press A-B button the third time to cancel this function. The end point cannot be set until 5 seconds of playback has elapsed from the start point.
Not all Blu-ray™ discs support the repeat A-B feature.
GOTO
During playback, press GOTO button to edit Title, Chapter, and Time.
Press ◀/▶ and OK button on the remote control to select Title, Chapter, or Time. Then press the numeric buttons or ▲/▼ and then press OK. The playback will skip to the desired location.
For Time Search, press ▲/▼ to select Title or Chapter time search.
SUBTITLE
Press this button repeatedly and the screen will display "X/XX XXX" or "Off". The "X" indicates the current number of this language; "XX" indicates the total number of language; "XXX" indicates the language.
The number of available languages depends on the disc.
RETURN
Press this button to return to the previous on-screen menu in setup menu such as External Memory Information, Parental Control, Country Code, etc.
During MP3/JPEG/VIDEO playback, press RETURN once, it will return back to Media Center page.
During VCD disc playback and PBC On is selected, press the button to return to PBC Menu.
ANGLE
During playback, press this button to change the angle of the picture. The screen will display "Angle X/X." The first "X" indicates the current number of angle, and the second "X" indicates total number of angle.
Not all Blu-ray™ or DVD has the multi-angle feature. The screen will take around 5 seconds to change.
TOP MENU
You may press this button at any time, and the Blu-ray Disc™ or DVD video disc playback will pop up the disc menu.
POP UP/MENU
During Blu-ray Disc™ playback, press POP UP/MENU to display the disc title, and the playback will not be stopped even the menu is on the screen.
1. Press the ▲/▼/◀/▶ buttons to select an option, then press OK to confirm.
2. Press POP UP/MENU to close the menu.
During DVD playback, press POP UP/MENU to open the disc menu.
During VCD playback, press POP UP/MENU to switch PBC On/Off.
During displaying USB and Data Disc file content in media center, press POP UP/MENU to add the Photo/Music/Video files to the playlist.
1. Press ▲/▼/◀/▶ buttons to select an option under the Photo/Music/Video files.
2. In the file browser, press ▶ to select the file(s) to be added to the playlist. "√ " will appear beside the selected files.
3. Press POP UP/MENU button, a pop up menu will appear, then press ▲/▼ and OK button to select "Add to Playlist" to add the files to the Playlist. "Select all" and "Clear all" options are also available. Select "Cancel" to exit the pop up menu.
All the selected files will be added to the "Playlist" folder. You can play or delete the files in the playlist. Press POP UP/MENU to delete the selected files in "Playlist".

Note:
- This function is disabled for media server browsing.

SETUP
Press the SETUP button, and the screen will display some information about the player, such as:

- General Setting
- Display Setting
- Audio Setting
- System Information

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PROGRAM
During CD/DVD/VCD playback, you can press this button to edit the sequence of the playlist.
BOOKMARK
During VCD/DVD/DivX® disc playback, press the BOOKMARK button to add the bookmark; press and hold for a few seconds to display the list of bookmark which you added before on the screen, then you can press the OK button to select the bookmark or CLEAR button to delete the bookmark.
AUDIO
Press AUDIO button on the remote control to select the audio streams that set within the Blu-ray™ or DVD disc.
The screen will display:
AUDIO: X / XX XXX XXXX
"X" - The Current Audio Stream Number
"XX" - The total number of Audio Stream
"XXX" - Audio Language
"XXXX" - Audio Technology
MC
Press this button to open Media Center. In Media Center, you can choose to play the files in USB, Data Disc, Media Server Search or to use other network features.
ZOOM
Press ZOOM button repeatedly to Zoom in/out playback in the video.
Zoom mode : Zoom 2x -> Zoom 3x -> Zoom 4x -> Zoom 1/2 -> Zoom 1/3 -> Zoom 1/4.
DIGEST
During playback of JPEG disc, press DIGEST to view a page of 12 thumbnail images.
- Use ▲/▼/◀/▶ to select an image.
Press OK to view the selected image in full-screen and subsequent images will be displayed one after another automatically.
- Press PREV |◀◀/NEXT ▶▶| to view the previous or next thumbnail screen.
PIP AUDIO
Press PIP AUDIO button to open the secondary audio of secondary video(PIP's sub-window video).
OSC
Press OSC to open On Screen Control menu during playback. In this menu, you can make some playback-related control.
The on screen control contains following items:
[Title]: The title in current playback/titles in total. Select your desired title to playback.
[Chapter]: The chapter in current playback/ chapters in total. Select your desired chapter to playback.
[Time]: View the elapsed/remaining playback time of title/chapter. Use ▲/▼ to view: the elapsed playback time of title, the remaining playback time of title, the elapsed playback time of chapter, and the remaining playback time of chapter.
[Mode]: Select playback mode among shuffle, random, and normal.
[Audio]: The Blu-ray Disc™/DVD disc's soundtrack language. Use ▲/▼ to view the audio available in the disc and select your desired Audio type.
[Angle]: The angle view of current playback/ the angles in total. Please reference Playback > Angle to see more detailed info. Use ▲/▼ to select your desired angle view.
[Subtitle]: The Subtitle in current playback. Use ▲/▼ to view the subtitles available in the disc and select your desired subtitle type or turn it off.

Note:

- In accordance with the different discs, there would be different subtitles. Such as
Central Europe
Cyrillic
Latin I
Greek
Turkish
Hebrew

[Subtitle Style]: When you play the Blu-ray Disc™ or DVD disc and if it has external subtitle, you will see it in OSC menu.
[Bitrate]: Use ▲/▼ to select audio or video bitrate.
[Still Off]: Close the Still feature of DVD disc. For some DVD discs, a certain video picture will be frozen as a still picture during the process of playback to let the user has a better view of certain picture. To continue playback, select Still Off.
[Instant Search]: Instant search 30 seconds forward.
[Instant Replay]: Replay the content from 10 seconds before.

Tips:

- The specified operation for each item will vary with disc types. And some items are available only when the disc is supportable.
- The DivX® subtitle filename(.sub) has to be saved under the same filename as the movie(.avi) in the same folder (e.g. Folder A: abc.avi and abc.sub).

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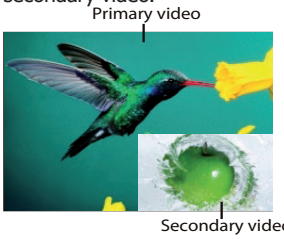
Blu-ray Disc™ BONUSVIEW™

Playing Secondary Video (Picture-in-Picture) and Secondary Audio is for Blu-ray Disc™ only. Secondary video can be played from a disc compatible with the Picture-in-Picture (PIP) function. For the playback method, refer to the instructions for the disc.

1. Turn on secondary video by pressing the PIP button.
2. Press the PIP AUDIO button to select the secondary audio, and select an option except Off. The secondary audio is opened, you can hear the disc secondary video sound.
In order to hear the secondary audio, the PIP feature on the disc must be turned on.
3. Press the PIP button again to turn off the secondary video.



This function is not available when the primary video is played in Search, Slow-Motion, or Frame-by-Frame or Fast Forward/ Reverse mode.

To listen to the secondary audio, the digital audio output must be set to "Bitstream", "Re-encode" or "PCM". Otherwise, only the primary audio can be heard.

Notes:

- Not all the Blu-ray™ discs can support this function.

- High Definition PIP (Second Video) is not supported.

Watermark

This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback will be interrupted.

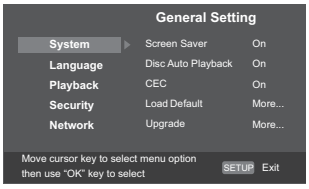
More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at http://www.cinavia.com. To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA

6 Customizing

This section describes the various setting option of this Blu-ray Disc™ player.
If the setup option is greyed out, it means the setting cannot be changed at the current state.

General Setting

1. Press SETUP button on the remote control. The Setup Menu appears.



2. Press ▼ to select an option, then press ▶ to access.
3. Press ▲/▼ to select a setup option and press ▶.
4. Select the setting you wish to change and press OK to confirm.
   - Press ◀ to return to the previous menu.

[System]

To change the following system option to personalize your Blu-ray Disc™ player.

- **[Screen Saver]**
  Turn On or Off the screen saver mode. It helps to protect the TV screen.
  { **On** } – Set the screen saver active after approximately 5 minutes with no operation. You can turn off the screen saver by pressing the SETUP button.
  - The Blu-ray Disc™ player will switch to standby mode if there is no operation after the screen saver is engaged for approximately 10 minutes.
  { **Off** } – Turn off the screen saver mode. The Blu-ray Disc™ player will not switch to standby mode automatically.
- **[Disc Auto Playback]**
  Turn On or Off the disc automatic playback switching mode.
  {**On**} – The disc playback automatically after loading.
  {**Off**} – Turn off disc auto playback mode.
- **[CEC]**
  This player supports REGZA-LINK which uses the HDMI CEC (Consumer Electronics Control) protocol. You can use one single remote control to control

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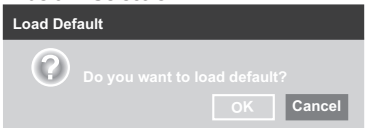
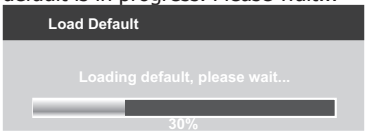
all REGZA-LINK-compliant devices that are connected through HDMI connectors.
{**On**} - Turns on REGZA-LINK features.
-With CEC on, during TV standby with the Blu-ray Disc™ player on, pressing SETUP, PLAY/PAUSE will power on the TV. When you turn the TV off, this unit will automatically turn off.
{**Off**} - Disables REGZA-LINK features.

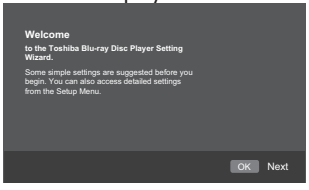
- **[Load Default]**
  Reset all settings of Blu-ray Disc™ player to initial default state.
  - Follow the instruction on the TV screen to confirm the default setting operation.
  1. Select **Load Default**.
  2. A dialogue box pops up shown as below. Select OK.



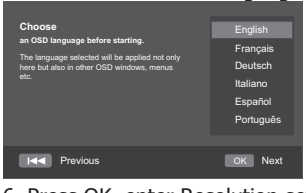
3. It may take awhile when loading default is in progress. Please wait...



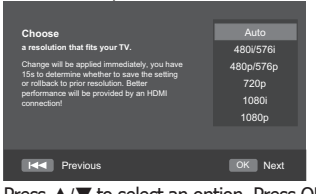
4. TV will display as follow:


Welcome
to the Toshiba Blu-ray Disc Player Setting Wizard.
Some simple settings are suggested before you begin. You can also access detailed settings from the Setup Menu.
OK Next

5. Press OK, enter language setting.
Press ▲/▼ to select a language option.

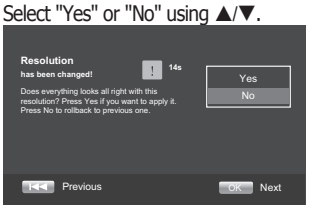


6. Press OK, enter Resolution setting.

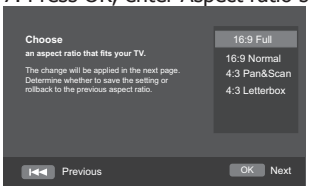

Choose
a resolution that fits your TV.
Change will be applied immediately, you have 15s to determine whether to save the setting or rollback to prior resolution. Better performance will be provided by an HDMI connection!
Auto
480i/576i
480p/576p
720p
1080i
1080p
Previous
OK Next

Press ▲/▼ to select an option. Press OK.

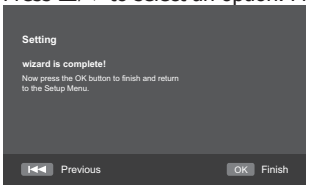
Select "Yes" or "No" using ▲/▼.


Resolution
has been changed!
14s
Does everything looks all right with this resolution? Press Yes if you want to apply it. Press No to rollback to previous one.
Yes
No
Previous
OK Next

7. Press OK, enter Aspect ratio setting.


Choose
an aspect ratio that fits your TV.
The change will be applied in the next page. Determine whether to save the setting or rollback to the previous aspect ratio.
16:9 Full
16:9 Normal
4:3 Pan&Scan
4:3 Letterbox
Previous
OK Next

Press ▲/▼ to select an option. Press OK.



8. Press OK to return to [General Setting] Menu.

- **[Upgrade]**
  For software upgrades to enhance performance, you could select the following upgrade method and start to upgrade.
  {**Disc**}/{**USB Storage**}/{**Internet**}
  SW upgrade by Disc/USB Storage
  Upgrade the software from the disc or USB flash drive.
  1. Insert the disc or connect the USB flash drive which contains the upgrade file package.
  2. Follow the instruction on the TV screen to confirm upgrade operation.
  - The system will reboot after 5 seconds or OK key is pressed.

  Notes:

- If set [Disc Auto Playback] to [Off], after you insert the disc that contains the upgraded information to upgrade system, you have to start upgrade from this option of SETUP Menu.
- If the upgrade file package did not pass the verification, error prompt is displayed , check the package again (such as the package is not complete).
- Make sure the firmware version is not an old version.
- When you upgrade the system using USB flash drive, you should make a new folder named

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UPG_ALL, and copy the upgrade file into this folder.

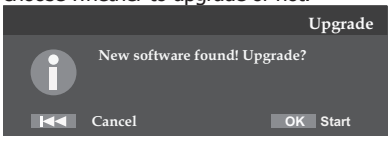
SW upgrade by Internet introduction

There are two modes to upgrade via internet: Automatic Mode and Interactive Mode.

Automatic Mode:

The player will check the internet whether it is connected automatically when powered on. If connected, player will try to connect the Toshiba server to check if there is new firmware for the player.

If yes, the player will pop up a message on the screen to inform you that an upgrading firmware is available on the internet. You can choose whether to upgrade or not.

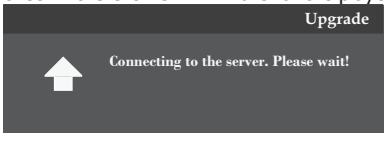


Interactive Mode**:**

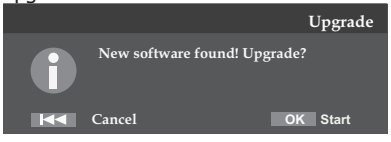
You can also do Internet upgrade via setup menu.

You should make sure that the player is connected to the internet first.

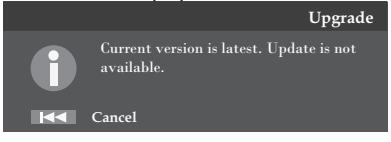
Press SETUP button of the remote control, then choose "System -> Upgrade -> Internet" and press OK button. Then the player will connect the Toshiba server to check if there is new firmware for the player.



If yes, the player will pop up a message on the screen and you can choose whether to upgrade or not.



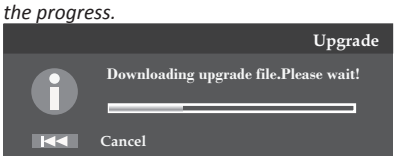
If no, the player will pop up a message on the screen to inform you that there is no new firmware for the player.



Remark :

If you choose to upgrade the new FW ,

1.The player will begin to download the upgrade file and pop up a message to show the progress.



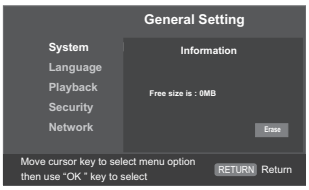
2. When download is finished, the player will pop up a message for you, and you can choose whether to proceed with the upgrading or not. If you choose to upgrade, the player will begin to upgrade, and pop up a message to show the progress. When upgrade is done, the player will restart.

Attention! Do NOT cut off the power supply when the firmware is upgrading! If not, the player might become unworkable.

- **[External Memory]**

  External Memory would be used in BD-Live™ function. When you plug in the USB flash drive which has at least 1GB free space to play BD-Live™ function, the Blu-ray Disc™ system would make a directory named BUDA automatically. Information will display the Free size.

  1. Press OK.
  2. Follow the instruction on the TV screen to select {Information}.



  3. Press OK to select "Erase", the data in the BUDA folder will be cleared.

- **[Power Down Mode]**

Quick Start can reduce the time of Power On or Power Off significantly. But the power consumption is higher in Quick Start mode.

Setting methods:

Setup Menu -> General Setting -> System -> Power Down Mode -> Normal/Quick Start (Default as Normal).

Choose Quick Start to go into Quick Start mode. This mode will only be activated upon your next standby Off/On.

Generally, in Normal mode, Power On or Power Off takes longer time and its standby power consumption is low. In Quick Start mode, Power On or Power Off

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takes shorter time and its standby power consumption is higher.

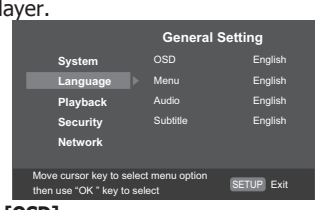
Notes:

- Please be noted that the responding time to the video output varies for different TV, therefore the responding time to power on the TV in Quick Start mode may vary.

- The player will reset to Normal mode whenever the AC power recovers from a loss.

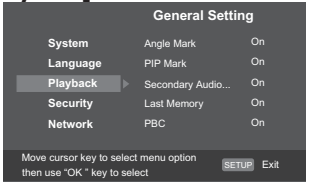
[Language]

Set up the OSD(On-Screen Display), Menu, Audio and Subtitle default language for the player.



- **[OSD]**
  Select the default on-screen display language.
- **[Menu]**
  Select the default menu language.
- **[Audio]**
  Select the default audio language.
- **[Subtitle]**
  Select the default subtitle language.

[Playback]



- **[Angle Mark]**
  Some Blu-ray™ discs/DVDs contain the scenes recorded with multiple angles, which allow you to enjoy the videos with your desired angles, therefore the angle mark is displayed only when the Blu-ray Disc™/DVD disc is supportable for multi-angle and Angle Mark is set to ON.
  {**On**} – Display the angle mark.
  {**Off**} – Hide the angle mark.
- **[PIP Mark]**
  The Picture -In- Picture (PIP) mode display two pictures on the TV screen at the same time, the full screen picture is called Main Window and the small inset window is called Sub Window. The PIP mark is displayed when in PIP mode and PIP Mark is set to ON.
  {**On**} – Display the PIP mark.
  {**Off**} – Hide the PIP mark.
  Note:

- High Definition PIP (Second Video) is not supported.

- **[Secondary Audio Mark]**
  {**On**} – Display Secondary Audio Mark.
  {**Off**} – Hide the Secondary Audio Mark.
- **[Last Memory]**
  If you open the disc tray or switch this Blu-ray Disc™ player to standby state during normal playback, the Blu-ray Disc™ player can memorize the end playing point, the player will start playback from the memorized point next time.
  {**On**} – Active Last Memory feature.
  {**Off**} – Disable Last Memory feature.
  Note:

- Not all the Blu-ray™ discs can support this function.

- **[PBC]**
  VCD2.0 has PBC control (Playback Control) menu, which allow you to interact with the system via menu.
  {**On**} – Display playback control menu, use NUMBER keys to select desired option.
  {**Off**} – Hide playback control menu and start playback from track1 automatically.
- **[Closed Caption]**
  Allow people who are deaf or hearing impaired, to have access to television programming by displaying the audio portion of a television programme as text on the screen.
  {**On**} – Display the Closed Caption.
  {**Off**} – Hide the Closed Caption.
- **[DivX(R) VOD DRM]**
  The DivX(R) VOD DRM means DivX(R) Video on Demand Digital Right Management.
  DivX® is the name of a revolutionary new video codec which is based on the new MPEG-4 compression standard for video. You will be able to play DivX® movies using this player.
  You can only play DivX® videos that were rented or purchased with the DivX® registration code of this product.
  Select the DivX(R) VOD DRM option, you can find this product's registration code.
  To learn more please visit http://www.divx.com/vod.

English

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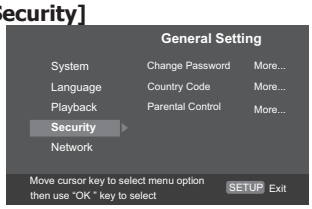
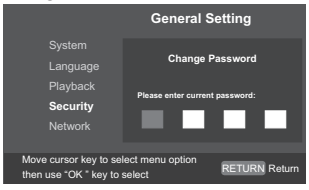
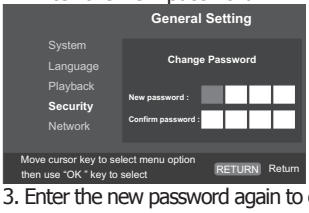
[Security]



- **[Change password]**
  Follow the instruction on the TV set or change the password for locked discs and play restricted Blu-ray™ discs/ DVDs.

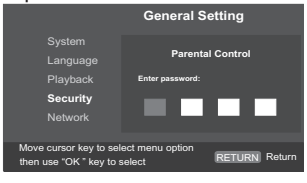


1. Use NUMBER keys to enter four digit old password. The default password is "0000".
2. Enter the new password.

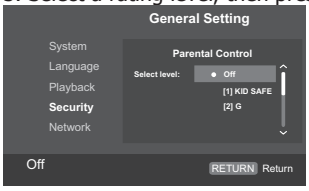


3. Enter the new password again to confirm.

- **[Country Code]**
  This ensures that you will be able to see the scenes intended for your current residential Country/Area.
  Use NUMBER Keys to enter your password, then you can choose your Country/Area.
- **[Parental Control]**
  Restricts access to discs that are unsuitable for children. These discs must be recorded with rating.
  1. Press OK.
  2. Use NUMBER keys to enter the password.



3. Select a rating level, then press OK.



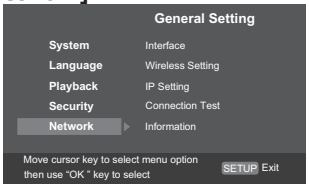
Items	Description
KID SAFE	Safe for kids
G	All children and general guidance
PG	Parental guidance
PG-13	Parental guidance for children under 13
PGR	Parental guidance Recommended
R	Restricted viewing
NC-17	No one 17 and under allowed
ADULT	Adult only

Notes:

- Rated discs above the level you set in [Parental Control] require a password to be entered.

- The ratings are country dependent. To allow all discs to play, select 'Off'.

[Network]



To enjoy BD-Live™ bonus contents, Media Server Search, Picasa, YouTube and External Control, set up the network connection.

Connect to network with Ethernet

1. Connect the Blu-ray Disc™ player to the broadband modem or router.
2. In the Setup menu, select [Network], then press ▶.
3. Select [Interface] in the menu, then press OK to select [Ethernet].
4. Select [IP Setting] in the menu, then press OK to select [Auto]. An IP address is obtained automatically.
   If no IP address is obtained, select [Manual] to input IP Address, Subnet Mask, Default Gateway, DNS1/DNS2 and press OK to re-connect again to the network. It will try to obtain the IP address again.
5. Press RETURN or press OK to exit.

Notes:

- Ensure that the network cable is properly connected and the router is switched on.

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- During [Manual] mode, if the number is entered incorrectly, press ▼ to erase the number.
- A contract with the provider is needed to connect to the Internet.
- This player does not support automatic detection of cross-cables. Use the straight (standard) LAN cable.
- Loading BD-Live™ content from the internet may take some time, depending on the file size and the speed of the internet connection. To enjoy BD-Live™ bonus content, you need to connect 1GB or larger USB flash drive.

Connect to network with Wireless

1. In the Setup menu, select [Network], then press ▶.
2. Select [Interface] in the menu, then press OK to select [Wireless].
3. A message will pop up on the screen, select "Yes" to continue.
4. Select [Scan] or [Manual] or [Auto].
5. Then select "Next" and press OK to continue.

[Scan]

Select [Scan] in the menu, the Blu-ray Disc™ player will start scanning and provide a list of available network in your area. Select your network ID and then press OK twice, the alphanumeric keys will appear for you to input your password. If your network does not required password, press OK once.

[Manual]

If you know the details information of a network, you can choose this way to connect a wireless network. First, enter the ID of the network (SSID), then select the encryption type of WPS and lastly enter the password. Press OK to call out the alphanumeric keys on the screen for your entries. Then you can connect the Blu-ray Disc™ player to the network.

[Auto]

The Blu-ray Disc™ player will try to connect automatically to a wireless network.

PBC (Push Button Configuration):

1. Turn on the router, set it to WPS, then press WPS button if it has it.
2. Switch on the Blu-ray Disc™ player and connected devices, then use remote control to choose: General Setting -> Network -> Interface -> Wireless -> Auto -> PBC -> Next.
3. Press SETUP to exit.

PIN (Personal Information Number):

1. Turn on the router.
2. Switch on the Blu-ray Disc™ player and connected devices, then use remote control to choose: General Setting -> Network -> Interface -> Wireless -> Auto ->PIN.
A set of PIN code will be prompted.
3. Then open web browser to go to the router setting page to input the PIN code.
4. Select "Next" on the Blu-ray Disc™ player.
5. Press SETUP to exit.

Notes:

- USB Wi-Fi® adapter is required for a wireless connection (not supplied).
- This unit is compatible with TOSHIBA's USB Wi-Fi® adapter only (Model name: WLM-12EB1).
- Connect the TOSHIBA's USB Wi-Fi® adapter to the USB jack on this product.
- Ensure that the Wifi router is switched on.
- Depending on the WPS type, password input prompt may not be displayed.
- The network ID (SSID) and password input are case sensitive.

- **[Interface]**
  Choose the way to connect network, Ethernet or Wireless.
- **[Wireless Setting]**
  When "Wireless" is chosen in Interface, you can use Wireless Setting option to search and connect a wireless network.
- **[IP Setting]**
  {Auto} – Auto obtain network information.
  {Manual} – Manual setup network information.
- **[Connection Test]**
  Display Network connection status information.
- **[Information]**
  Display all Network Information.
- **[BD-Live Connection]**
  {Permitted} – During playback of BD-Live™ disc, the disc may automatically download all information from appointed network.
  {Partial Permitted} – During playback of BD-Live™ disc, the disc may automatically download partial of the information from appointed network.
  {Prohibited} – Disable downloading information from network.
- **[Media Server Search]**
  Enable or disable the Media Server Search feature. See details in page 22 for Media Server Search introduction.
  {**Enable**} – Enable the Media Server Search feature.
  {**Disable**} – Disable the Media Server Search feature.
- **[External Control Setting]**
  Set up the External Control Setting information.
  {**Device Name**}
  Input the Device Name (to control the Blu-ray Disc™ player from the iPhone etc.)

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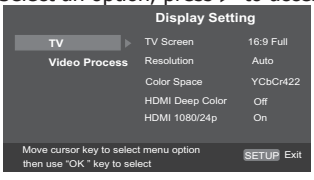
by using the on-screen software keyboard.
*Strings(1-15 characters), [A-Z][A-Z0-9]**
{**User Name**}
Input the User Name (to control the Blu-ray Disc™ player from the iPhone etc.) by using the on-screen software keyboard.
*Strings(Max. 16 characters), [a-zA-Z0-9] [a-zA-Z0-9_-¥.]**
{**Password**}
Input the Password (to control the Blu-ray Disc™ player from the iPhone etc.) by using the on-screen software keyboard.
*Strings(Max. 16 characters), [a-zA-Z0-9] [a-zA-Z0-9_-¥.]**
{**Port Number**}
Port Number should be 80 or integer from 2000 to 10000, the default value is 4000.
Note:
- Toshiba does not guarantee normal operation with all connected devices.
(*)Notes:
*- Strings(1-15 characters), [A-Z][A-Z0-9]**
You can input 1-15 characters in Device Name, [A-Z] represent the first character, you can only choose from capital letter A to Z. [A-Z0-9] represent the rest of the characters, you can choose from capital letters A to Z or numbers from 0 to 9.
*- Strings(Max. 16 characters), [a-zA-Z0-9] [a-zA-Z0-9_-¥.]**
You can input 1-16 characters in User Name and Password, [a-zA-Z0-9] represent the first character, you can choose from both the lower-case a to z and capital letters A to Z or number from 0 to 9.[a-zA-Z0-9_-¥.] represent the rest of the characters, you can choose from both the lower-case a to z and capital letters A to Z, numbers from 0-9 or symbols.

Display Setting

1. Press SETUP, **[General Setting]** menu is displayed.
2. Press ▶ to select **[Display Setting]**, then press ▼.
3. Select an option, press ▶ to access.



4. Press ▲/▼ to select a setup option and press ▶.
5. Select the setting you wish to change and press OK to confirm.
   - Press ◀ to return to the previous menu.
   - Press SETUP to exit the menu.

[TV]

- **[TV Screen]**
  Select the screen format according to how you want the picture to appear on the TV.
  {**16:9 Full**} – For a disc with the aspect ratio of 4:3, the output video is stretched into 16:9 full screen.
  {**16:9 Normal**} – For a disc with the aspect ratio of 4:3, the output video is resized vertically to match what will be seen on the display.
  {**4:3 Pan&Scan**} – For standard TV, it displays a wide picture on the entire screen and cuts off the redundant portions.
  {**4:3 Letterbox**} – For standard TV, it displays a wide picture with two black borders on the top and bottom of 4:3 screen.
- **[Resolution]**
  Select a video output resolution that is compatible with your TV display capability.
  {**Auto**} – Select the most suitable resolution according to the TV.
  {**480i/576i**}, {**480p/576p**}, {**720p**}, {**1080i**}, {**1080p**}
  – Select a video resolution setting that is best supported by the TV. See TV manual for details.
- **[Color Space]**
  Select a predefined Colour space of picture.
  {**RGB**} – Select RGB Colour space.
  {**YCbCr**} – Select YCbCr Colour space.
  {**YCbCr422**} – Select YCbCr422 Colour space.
  {**Full RGB**} – Select Full RGB Colour space.
- **[HDMI Deep Color]**
  This feature is available only when the display device is connected by a HDMI cable, and when it supports Deep Colour feature.
  {**30 bits**} – Output 30 bits Colour.
  {**36 bits**} – Output 36 bits Colour.
  {**Off**} – Output standard 24 bits Colour.
  Note:
  - When the colour space is "YCbCr422", even if

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HDMI Deep Color is set to 30bits/36bits, it is not output with Deep Colour.

- **[HDMI 1080/24p]**
  {**On**} – Enable 1080/24p video resolution setting.
  {**Off**} – Disable 1080/24p video resolution setting.

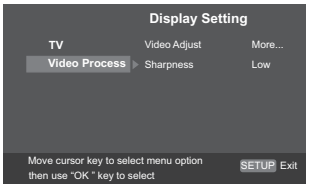
Notes about HDMI 1080/24p:
If you want the 1080/24p output, it should fulfill below 3 conditions:
1.TV supports the 1080/24p display;
2.Player choose the 1080/24p option in the setup menu;
3.Media must be the 1080/24p video.

Notes:

- This resolution becomes effective only when the playing Blu-ray Disc™ contents are Film source.

- During HDMI 1080/24p playback, there will be no composite output.

[Video Process]

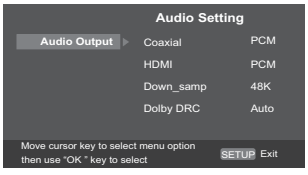


- **[Video Adjust]**
  Select a predefined setting of the video.
  1. Press OK .
  2. Press◀/▶ to adjust the video Brightness, Contrast, Hue and Saturation.
  {**Brightness**} - Press ◀/▶ to adjust the brightness of display, goes left means dark and right means bright.
  {**Contrast**} - Press ◀/▶ to adjust the contrast of display, goes left means low contrast and right means high contrast.
  {**Hue**} - Press ◀/▶ to adjust the Hue of display, goes left means low hue and right means high hue.
  {**Saturation**} - Press ◀/▶ to adjust the saturation of display, goes left means low Saturation and right means high saturation.
  3. Press RETURN to exit.

- **[Sharpness]**
  Select the level of sharpness: High, Middle, Low.
  {**High**} - Select High sharpness level.
  {**Middle**} - Select Middle sharpness. level.
  {**Low**} - Select Low sharpness level.

Audio Setting

1. Press SETUP, **[General Setting]** menu is displayed.
2. Press ▶ to select **[Audio Setting]**, then press ▼ .
3. Select an option, press ▶ to access.



4. Press ▲/▼ to select a setup option and press ▶.
5. Select the setting you wish to change and press OK to confirm.
   - Press ◀ to return to the previous menu.
   - Press SETUP to exit the menu.

[Audio Output]

- **[Coaxial]**
  Select the output mode of COAXIAL jack, options include Bitstream, PCM, Re-encode and Off.
  {**Bitstream**} – Output digital signal without any processing.
  {**PCM**} – Output digital signal with processing, only two channels export.
  {**Re-encode**} – Auto select signal type from COAXIAL jack according to the Audio stream on disc.
  {**Off**} – No output for Coaxial.
- **[HDMI]**
  Select the output mode of HDMI OUTPUT jack, options include Bitstream, PCM, Re-encode and Off.
  {**Bitstream**} – Output HDMI digital signal without any processing.
  {**PCM**} – Output HDMI digital signal with processing.
  {**Re-encode**} – Auto select signal type from HDMI OUTPUT jack according to the Audio stream on disc.
  {**Off**} – No output for HDMI.

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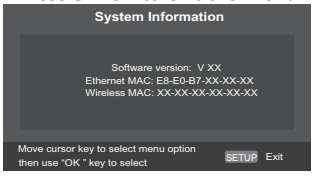
- **[Down_samp]**
  Select the digital audio signal sampling frequency. (Only Coaxial)
  {**48K**} – For discs recorded at sampling rate of 48 kHz.
  {**96K**} – For discs recorded at sampling rate of 96 kHz.
  {**192K**} – For discs recorded at sampling rate of 192 kHz.
- **[Dolby DRC]**
  Select the Dynamic Range Control mode which makes it available to listen to a movie at a low volume without losing sound clarity.
  {**Off**} – Non-dynamic range compress.
  {**On**} – Dynamic range compress.
  {**Auto**} – Adjust the DRC according to input audio.
  The setting of Auto is effective for Dolby TrueHD.

System Information

1. Press SETUP, [**General Setting**] menu is displayed.
2. Press ▶ to select **[System Information]**.
   - The current software version and Ethernet MAC address will be displayed. When Wi-Fi dongle is connected, Wireless MAC will be displayed too.
   - Press ◀ to return to the previous menu.
   - Press SETUP to exit the menu.


System Information
Software version: V XX
Ethernet MAC: E8-E0-B7-XX-XX-XX
Wireless MAC: XX-XX-XX-XX-XX-XX
Move cursor key to select menu option
then use "OK " key to select
SETUP Exit

Network Functional description

Media Server Search
With this player connected to network, you can play video, music and photo files from the server.
1. Connect this player to server network.
2. Press MC.
3. Select [Media Server Search], and press OK.
»» All the connected shared servers/ folders are shown in the list (Max. 16).
4. Select a server, and press OK to open it.
5. Select a kind of media (Photo, Music, Video) and press OK to open it.
6. Select a file or a folder to play or open it. You can only see and play files supported by both Windows Media player and the Blu-ray Disc™ player.
• You may control play with the disc play features.

Note:
- When using Media Server Search, you need to setup the network server according to each server Specification.

Picasa
With this player, you can access, search and view photos stored in your Picasa Web Albums.
What you need to do:
• On your computer, visit www.picasa.com to create an account with Picasa Web Albums. You need to do this only once.
1. Connect this player to the Internet.
2. Press CONNECTED button in remote control; or press MC, select [Connection], and press OK.
3. Select [Picasa], and press OK.
»» The default Picasa page is displayed on the TV screen.
4. Log into the Picasa Web Albums with your Picasa web account.
• For the first time log in, select "New User".
• To enter your Username and Password, press OK and the alphanumeric keys will appear on the TV screen for your entries.
• To delete your created User Account, press the red button on the remote control.
5. Use the remote control to navigate to select:
• My Photos: Display the photos stored in your Picasa Web Albums.

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• Featured: Display the featured photos from Picasa website.
• Friends: Display the list of friends.
• Search: Search photos based on keywords.
• Favorites: Display the favourite photos from your Picasa Web Albums.
• Tag: Display the photos that have been tagged in your Picasa Web Albums.
6. To exit the Picasa page, press RETURN.

Play a slideshow

1. Use the remote control to select "My Photos" from the Picasa page, and press OK.
»» The photos in your Picasa Web Albums are displayed in thumbnails.
2. Select a photo, and press OK to view the photo in full screen.
3. Press OK again to start a photo slideshow.
4. During slideshow, press [OSC] to access the following options, and then press OK to select an option:
• Current playing: Display the index of the current photo.
• Slideshow pause/play: Pause or play a slideshow.
• Rotate: Rotate the current photo.
• Zoom: Zoom in or zoom out the photo.
• Effect: Select a slideshow effect.
• Speed: Select a slideshow speed.
• Add this friend: Add the owner of the current photo to the friends list.
5. To return to the previous screen, press PREV ⏮.

YouTube

With this player connected to the Internet, you can browse, search and watch YouTube videos.
1. Connect this player to the Internet.
2. Press CONNECTED button in remote control; or press MC, select [Connection], and press OK.
4. Select [YouTube], and press OK.
»» The default YouTube page is displayed on the TV screen.
5. Use the remote control to navigate and select options.
• To exit YouTube, press MC.

Note:

- If you do not press any button for few seconds, the on-screen buttons and menu will disappear.

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7 Specification

Playable media

This product can play:
- Blu-ray Disc™-Video, BD-R/RE2.0, BDAV
- DVD, DVD-Video, DVD+R/+RW, DVD-R/-RW, DVD+R/-R DL (Dual Layer)
- Video CD/SVCD
- Audio CD, CD-R/CD-RW
- AVCHD
- USB flash drive

Video

Signal system: PAL/NTSC
HDMI Output: 480i/576i, 480p/576p, 720p, 1080i, 1080p, 1080/24p.

Audio
- Digital output (Coaxial): 0.5 Vp-p (75 ohm)
- HDMI output

LAN
- LAN terminal 10BASE-T/100BASE-TX

USB
- USB 1.1 / USB 2.0 Full-speed / USB 2.0 High-speed
- Supporting range: USB Mass Storage Class Device, TOSHIBA's USB Wi-Fi® adapter (Model name: WLM-12EB1), 4 ports USB HUB, Card reader, Flash disk.
- Supported file system: FAT32
- Maximum size supported: 1000GB (HDD needs self-powered)
- Does not support unpowered HDD

Main Unit
- Power supply rating: 200V-240V 50/60Hz
- Power consumption: 15W
- Power consumption in standby mode (Normal mode): <0.5W
- Power consumption in standby mode (Quick Start mode): <5W
- Dimensions (w x h x d): 360 ×36× 200(mm)
- Net Weight: 1.19 kg
- Operating temperature: 5°C to 35°C
- Operating humidity: Less than 80 % (no condensation)

Accessories supplied
- Remote control
- One R03 (AAA size) battery
- Simple IB

Compatible file formats

MP3 tracks
- Supported file extension: '.mp3'
- Supported audio codec : MP3
- ISO format
- Supported corresponding bitrate: 8kbps-320 kbps
- Supported sampling frequencies: 32kHz, 44.1kHz, 48kHz

JPEG
- Supported file extension: '.jpg' or '.jpeg'
- JPEG/ISO format
- Does not support Picture CD

DivX®
- Supported file extension: '.DIVX'
- DivX HD

MKV
- Supported file extensions: '.MKV'
- Supported video codecs: H264 MP/ HP, Divx, MPEG4 SP/ ASP, MPEG1, MPEG2
- Supported audio codecs: AAC 2ch & 5.1ch, MP3, AC3, DTS, LPCM
- Supported subtitles: Text/UTF8, SSA, SMI, SUB, SRT, ASS
- Playback of MKV files in CD-R/RW may not be compatible
- Some MKV format discs may not play, depending on the video resolution and frame rate condition

Other formats
- MP4 ('.mp4', '.mov'), AVI ('.avi'), MPEG ('.mpg', '.mpeg')

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8 Troubleshooting

If you experience any of the following difficulties while using this unit, check the list below before consulting your nearest TOSHIBA dealer.

Problem	Tip
No reaction to the remote control.	Connect the product to the power outlet.
	Point the remote control at the product.
	Insert the battery correctly.
	Insert new battery in the remote control.
No video signal on the display device.	Turn on the TV.
	Set the TV to the correct external input.
	Select the correct video resolution.
	Set TV System of TV correctly.
Incorrect or no audio / video signal on the amplifier/display device via HDMI cable.	If the unit is connected to the unauthorized display device with an HDMI cable, the audio/video signal may not be output.
	Ensure the amplifier/display devices setting match the Blu-ray Disc™ player.
No high-definition video signal on the TV.	Does the disc contain high-definition video? High-definition video is not available when the disc does not contain it.
	Does the TV support high-definition video? High-definition video is not available when the TV does not support it.
No audio signal from the loudspeakers of the audio system.	Turn on the audio system.
	Set the audio system to the correct external input.
	Increase the volume level of the audio system.
Cannot play back a disc.	Make sure that the Blu-ray Disc™ player supports the disc.
	Make sure that the Blu-ray Disc™ player supports the region code of the DVD or Blu-ray Disc™.
	For DVD+RW/+R or DVD-RW/-R, make sure that the disc is finalized.
	Clean the disc.
Cannot play back JPEG files from a disc.	Make sure that the disc was recorded in the JPEG/ISO format.
Cannot play DivX® files	Make sure that the file was recorded in the H.264 or MPEG-4 format.
Cannot play MP3 files from a disc.	Make sure that the disc was recorded in the ISO format.
	Make sure that the bit rate of the MP3 files is between 8 and 320 kbps.
	Make sure that the sample rate of the MP3 files is 32kHz, 44.1kHz or 48kHz.

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	Cannot find a JPEG file.	Make sure that the selected group (folder) does not contain more than 9,999 files for DVD and 999 files for CD.
		Make sure that the file extension is .jpg, .JPG, .jpeg or .JPEG.
	Cannot find a MP3 file.	Make sure that the selected folder does not contain more than 9,999 files for DVD and 999 files for CD.
		Make sure that the file extension is .mp3 or .MP3.
	Cannot upgrade SW.	When you upgrade the system with USB flash drive, you should make a new folder named UPG_ALL, and copy the upgrade file into this folder.
		When you upgrade the system by network, please make sure the player is connected to the internet when upgrading the SW.
	Sometimes the options of setup menu cannot be selected.	When playing a DVD disc or Blu-ray Disc™, press STOP button once, the player will go into stop resume mode, meanwhile you cannot change some settings in setup menu such as language subitem menu, audio, subtitle etc. If you want to change that, press STOP button twice, the player will go into full stop mode, then you can do it.

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9 Glossary

Aspect ratio
Aspect ratio refers to the length to height ratio of TV screens. The ratio of a standard TV is 4:3, while the ratio of a high definition or wide TV is 16:9. The letterbox allows you to enjoy a picture with a wider perspective on a standard 4:3 screen.

AVCHD™
AVCHD™ is a new format for high definition video camcorders which can record and play high-resolution HD images.

AVI
Audio Video Interleave, known by its acronym AVI, is a multimedia container ormat. AVI files can contain both audio and video data in a file container that allows synchronous audio-with-video playback.

BD-Java™
With some Blu-ray Disc™ which support Java™ applications, you can enjoy the interactive functions such as games or interactive menus.

BD-Live™
BD-Live™ is a BD-video (BD-ROM version 2 Profile 2.0/Profile 1.1) which contains new functions (e.g. Internet connection), in addition to the BONUSVIEW™ function.

Blu-ray Disc™
Blu-ray Disc™ is a next generation optical video disc capable of storing five times more data than a conventional DVD. The large capacity makes it possible to benefit from the features such as high-definition videos, multichannel surround sound, interactive menus and so on.

BONUSVIEW™
This is a Blu-ray Disc™-Video (Final Standard Profile or Profile 1.1) that supports interactive content encoded on the disc, such as picture-in-picture. This means you can play the primary video and secondary video simultaneously.

Chapter
Just as a book is split up into several chapters, a title on a Blu-ray Disc™-video or DVD-video is usually divided into chapters.

Digital Audio
Digital Audio is a sound signal that has been converted into numerical values. Digital sound can be transmitted through multiple channels. Analogue sound can only be transmitted through two channels.

DivX®
ABOUT DIVX VIDEO:
DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.

ABOUT DIVX VIDEO-ON-DEMAND:
This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

DivX Certified® to play DivX® video up to HD 1080p, including premium content.

Dolby® Digital
The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo (2ch) or multichannel audio.

Dolby® Digital Plus
Dolby Digital Plus is the next generation digital audio compression technology developed as an extension to Dolby Digital. Blu-ray Disc™ supports 7.1 multi-channel surround sound output.

Dolby® TrueHD
Dolby TrueHD is a lossless coding technology developed for next generation optical discs. Blu-ray Disc™ supports 7.1 multi-channel surround sound output.

DTS®
DTS is a multi-channel surround sound system. By connecting to DTS decoder, you can enjoy movie dynamic and realistic sound like movie theater. DTS surround sound technologies were developed by DTS, Inc.

DTS-HD®
DTS-HD is a lossless coding technology developed as an extension of the original DTS Coherent Acoustics format.
Blu-ray Disc™ supports 7.1 multi-channel surround sound output.

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DTS-HD Master Audio™
A disc encoded with DTS-HD Master Audio delivers ALL of the information from the original master recording — bit-for-bit, it's identical to what the sound engineers laid down. Audio doesn't get any better than this.

HDCP
High-bandwidth Digital Content Protection. This is a specification that provides a secure transmission of digital contents between different devices (to prevent unauthorized copyright.)

HDMI®
High-Definition Multimedia Interface (HDMI) is a high-speed digital interface that can transmit uncompressed high definition video and digital multichannel audio. It delivers high quality picture and sound quality. HDMI is fully backward compatible with DVI. As required by the HDMI standard, connecting to HDMI or DVI products without HDCP (High bandwidth Digital Content Protection) will result in no Video or Audio output.

IP Address
A set of numbers which are assigned to devices participating in a computer network.

JPEG
A very common digital still picture format. A still-picture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio. Files are recognized by their file extension '.jpg' or '.jpeg'.

LAN (Local Area Network)
A group of linked devices in a company, school or home. Indicates the boundaries of a particular network.

Local storage
This storage area is used as destination for storing additional contents from BD-Live™ enabled Blu-ray Disc™-Video.

MKV
The Matroska Multimedia Container is an open standard free container format, a file format that can hold an unlimited number of video, audio, picture or subtitle tracks inside a single file. It is intended to serve as a universal format for storing common multimedia content, like movies or TV shows.

MP3
A file format with a sound data compression system. MP3 is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. With the MP3 format, one CD-R or CD-RW can contain about 10 times more data than a regular CD.

MP4
MP4 file format is a multimedia container format standard specified as a part of MPEG-4. It is most commonly used to store digital video and digital audio streams, especially those defined by MPEG (MPEG4, H264…) but can also be used to store other data such as subtitles and still images.

PBC
Playback Control. A system where you navigate through a Video CD/Super VCD with on-screen menus that are recorded onto the disc. You can enjoy interactive playback and search.

PCM
Pulse Code Modulation. A digital audio encoding system.

Region code
A system that allows discs to be played only in the region designated. This unit only plays discs that have compatible region codes. You can find the region code of your unit on the product label. Some discs are compatible with more than one region (or ALL regions).

Sampling Frequency
The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

Title
A collection of chapters on Blu-ray Disc™-video or DVD-video.

Track
Audio CD use tracks to divide up the content of a disc. The Blu-ray Disc™-video or DVD-video equivalent is called a chapter. See also "Chapter".

Wi-Fi
Wi-Fi or Wifi, is a mechanism for wirelessly connecting electronic devices.

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udhcpc	GPLv2
net-tools	GPLv2
sysvinit	GPLv2
module-init-tools	GPLv2
util-linux-ng	GPLv2
procps (ps, top)	LGPLv2
psmisc	GPLv2
coreutils	GPLv2
gawk	GPLv2
grep	GPLv2
findutils	GPLv2
bash	GPLv2
tar	GPLv2
sed	GPLv2

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gzip	GPLv2
inetutils	GPLv2
ncurses	ncurses.txt
gdb (gdbserver)	GPLv2
Das U-Boot	GPLv2
International Components for Unicode	ICULicense.txt
OpenSSL	openssl.txt
zlib	zlib.txt
FreeType	FreeType.txt
Expat	expat.txt
libcurl	libcurl.txt
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Bison generated parser	bison_parser.txt
Doug Lea's malloc	dmalloc.txt
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zlib

zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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curl

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A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:

printf("%s",png_get_copyright(NULL));

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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DMG's dtoa and strtod

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bison_parser

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The other GNU programming tools, such as the GNU C compiler, have never had such a requirement. They could always be used for nonfree software. The reason Bison was different was not due to a special policy decision; it resulted from applying the usual General Public License to all of the Bison source code.

The output of the Bison utility the Bison parser file contains a verbatim copy of a sizable piece of Bison, which is the code for the parser's implementation. (The actions from your grammar are inserted into this implementation at one point, but most of the rest of the implementation is not changed.) When we applied the GPL terms to the skeleton code for the parser's implementation, the effect was to restrict the use of Bison output to free software.

We didn't change the terms because of sympathy for people who want to make software proprietary. Software should be free. But we concluded that limiting Bison's use to free software was doing little to encourage people to make other software free. So we decided to make the practical conditions for using Bison match the practical conditions for using the other GNU tools.

This exception applies when Bison is generating code for a parser. You can tell whether the exception applies to a Bison output file by inspecting the file for text beginning with ¨As a special exception.... The text spells out the exact terms of the exception.

dmalloc

This is a version (aka dlmalloc) of malloc/free/realloc written by Doug Lea and released to the public domain, as explained at http://creativecommons.org/licenses/publicdomain. Send questions, comments, complaints, performance data, etc to dl@cs.oswego.edu.

EMX_sprintf_sscanf

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JSON_Parser

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tinyxml

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